

Title (en)

METHOD FOR CORROSION-RESISTANT COATING OF METAL SUBSTRATES BY MEANS OF PLASMA POLYMERISATION

Title (de)

VERFAHREN ZUR KORROSIONSFESTEN BESCHICHTUNG VON METALLSUBSTRATEN MITTELS PLASMAPOLYMERISATION

Title (fr)

PROCEDE DE REVETEMENT ANTICORROSION DE SUBSTRATS METALLIQUES PAR POLYMERISATION AU PLASMA

Publication

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Application

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Abstract (en)

[origin: US2002014325A1] The invention relates to a metal substrate with a corrosion-resistant coating produced by means of plasma polymerisation, wherein the substrate is subjected to mechanical, chemical and/or electrochemical smoothing in a pre-treatment step and is subsequently exposed to a plasma at a temperature of less than 200° C. and at a pressure of 10-5 bis 100 mbars, whereby in a first step the surface is activated in a reducing plasma and in a second step the polymer is separated from a plasma containing at least one hydrocarbon or silico-organic compound which can be vaporized in plasma conditions, optionally contains oxygen, nitrogen or sulphur and can contain fluorine.

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